

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-4 (canceled).

5. (previously presented) A method of performing retransmission and flow control comprising:
- a. configuring a back channel between a transmitting device and a receiving device for providing retransmission and flow control information from the receiving device to the transmitting device related to a stream of isochronous data packets transmitted from the transmitting device to the source device;
 - b. monitoring the stream of isochronous data packets received at the receiving device for necessary retransmission or flow control;
 - c. configuring a back channel packet for indicating a retransmission or flow control function to perform, wherein the back channel packet includes a control instruction that instructs the transmitting device to reset transmission of the stream of isochronous data packets starting from a specified packet within the stream of isochronous data packets, and further wherein the back channel packet includes a dbc field that identifies the specified packet within the stream of isochronous data packets from which transmission is to be reset;
 - d. transmitting the back channel packet from the receiving device to the transmitting device over the back channel; and
 - e. resetting transmission to re-start from the specified packet, such that the specified packet and packets after the specified packet within the stream of isochronous data packets are transmitted.

Claims 6-19 (canceled).

20. (previously presented) A method of transmitting flow control and retransmission information comprising:
- a. configuring a transmitting plug on a receiving device for transmitting an isochronous back channel packet over an isochronous channel via the transmitting plug to a transmitting device;
 - b. determining flow control and retransmission information based on the status of a received isochronous data packet at the receiving device, wherein the received isochronous data packet is one of a stream of isochronous data packets transmitted from the transmitting device to the receiving device, wherein the stream of isochronous data packets is transmitted in non real-time;
 - c. packetizing flow control and retransmission information within the isochronous back channel packet; and
 - d. transmitting the isochronous back channel packet from the receiving device over the isochronous back channel via the transmitting plug, wherein the back channel packet includes a control instruction that instructs the transmitting device to reset transmission of the stream of isochronous data packets starting from a specified packet within the stream of isochronous data packets, such that the specified packet and packets after the specified packet within the stream of isochronous data packets are transmitted.
21. (canceled).
22. (original) The method according to Claim 20 wherein the status of the received isochronous data packet indicates a packet transmission error and instructs the transmitting device to reset transmission of the stream of isochronous data packets starting from a specified packet within the stream of isochronous data packets.

Claims 23-28 (canceled).

29. (previously presented) A method of receiving flow control and retransmission information comprising:
- a. configuring a receiving plug on a transmitting device for receiving an isochronous back channel packet from a receiving device, wherein the isochronous back channel packet is received over an isochronous channel via the receiving plug;
 - b. receiving the isochronous back channel packet via the receiving plug;
 - c. reading flow control and retransmission information included within the isochronous back channel packet wherein the flow control and retransmission information relates to a stream of isochronous data packets transmitted from the transmitting device to the receiving device and provides a control instruction to the transmitting device to regulate transmission of the stream of isochronous data packets, wherein the control instruction instructs the transmitting device to reset transmission of the stream of isochronous data packets starting from a specified packet within the stream of isochronous data packets, such that the specified packet and packets after the specified packet within the stream of isochronous data packets are transmitted; and
 - d. regulating transmission of the stream of isochronous data packets as determined by the control instruction, wherein the stream of isochronous data packets is transmitted in non real-time.
30. (previously presented) A method of configuring a plug to support an isochronous back channel comprising:
- a. embedding a back channel flow control information block within a plug configuration information block, wherein the back channel flow control information block is embedded within a non real-time plug transfer information block which is embedded within the plug configuration information block;
 - b. defining a back channel information type within the back channel flow control information block, wherein the back channel information type indicates an isochronous back channel control mechanism for providing a flow control and retransmission control instruction, wherein the control instruction instructs a transmitting device to reset transmission of the stream of isochronous data packets starting from a specified packet within the stream of isochronous data packets,

- such that the specified packet and packets after the specified packet within the stream of isochronous data packets are transmitted; and
- c. setting an isochronous channel number field within the back channel flow control information block to indicate the isochronous channel used to send an isochronous back channel packet, wherein the isochronous back channel packet includes the control instruction which is used to regulate a transmission of a stream of isochronous data packets.

Claims 31-49 (canceled).

50. (previously presented) A method of performing retransmission and flow control comprising:
- a. configuring an isochronous channel between a transmitting device and a receiving device as an isochronous back channel for providing retransmission and flow control information from the receiving device to the transmitting device related to a stream of isochronous data packets transmitted from the transmitting device to the source device, wherein the stream of isochronous data packets is transmitted in non real-time;
 - b. monitoring the stream of isochronous data packets received at the receiving device for necessary retransmission or flow control;
 - c. configuring an isochronous back channel packet for indicating a retransmission or flow control function to perform; and
 - d. transmitting the isochronous back channel packet from the receiving device to the transmitting device over the isochronous back channel, wherein the back channel packet includes a control instruction that instructs the transmitting device to reset transmission of the stream of isochronous data packets starting from a specified packet within the stream of isochronous data packets, such that the specified packet and packets after the specified packet within the stream of isochronous data packets are transmitted.

51. (previously presented) A method of performing retransmission and flow control comprising:
- a. configuring an isochronous channel between a transmitting device and a receiving device as an isochronous back channel for providing retransmission and flow control information from the receiving device to the transmitting device related to a stream of isochronous data packets transmitted from the transmitting device to the source device;
 - b. monitoring the stream of isochronous data packets received at the receiving device for necessary retransmission or flow control;
 - c. configuring an isochronous back channel packet for indicating a retransmission or flow control function to perform;
 - d. transmitting the isochronous back channel packet from the receiving device to the transmitting device over the isochronous back channel, wherein the isochronous back channel packet includes a control instruction that instructs the transmitting device to reset transmission of the stream of isochronous data packets starting from a specified packet within the stream of isochronous data packets and a dbc field that identifies the specified packet within the stream of isochronous data packets from which transmission is to be reset; and
 - e. resetting transmission to re-start from the specified packet, such that the specified packet and packets after the specified packet within the stream of isochronous data packets are transmitted.
52. (previously presented) An apparatus for communicating flow control and retransmission information comprising:
- a. a configuring circuit to configure a plug to communicate an isochronous back channel packet over an isochronous back channel;
 - b. a packetizing circuit to packetize flow control and retransmission information within the isochronous back channel packet;
 - c. a transceiver circuit configured to communicate the isochronous back channel packet via the plug;
 - d. a de-packetizing circuit to extract the flow control and retransmission information from the isochronous back channel packet; and

- e. a controller coupled to the configuring circuit, the packetizing circuit, the transceiver circuit, and the de-packetizing circuit to determine a control instruction and a stream of isochronous data packets to which the control instruction is applied from the flow control and retransmission information and apply the control instruction to the determined stream of isochronous data packets, wherein the stream of isochronous data packets is transmitted in non real-time, and further wherein the control instruction instructs a transmitting device to reset transmission of the stream of isochronous data packets starting from a specified packet within the stream of isochronous data packets, such that the specified packet and packets after the specified packet within the stream of isochronous data packets are transmitted.
53. (previously presented) An apparatus for communicating flow control and retransmission information comprising:
- a. a configuring circuit to configure a plug to communicate an isochronous back channel packet over an isochronous back channel;
 - b. a packetizing circuit to packetize flow control and retransmission information within the isochronous back channel packet;
 - c. a transceiver circuit configured to communicate the isochronous back channel packet via the plug;
 - d. a de-packetizing circuit to extract the flow control and retransmission information from the isochronous back channel packet;
 - e. a controller coupled to the configuring circuit, the packetizing circuit, the transceiver circuit, and the de-packetizing circuit to determine a control instruction and a stream of isochronous data packets to which the control instruction is applied from the flow control and retransmission information and apply the control instruction to the determined stream of isochronous data packets, wherein the control instruction is an indication to reset transmission of the stream of isochronous data packets starting from a specified packet within the stream of isochronous data packets and further wherein the isochronous back channel packet includes a dbc field that identifies the specified packet within the stream of isochronous data packets from which transmission is to be reset, wherein resetting transmission from the specified packet causes the specified packet and packets

after the specified packet within the stream of isochronous data packets to be transmitted.

54. (previously presented) The apparatus according to Claim 53 wherein the isochronous back channel packet includes a control field that contains a value corresponding to the control instruction.
55. (previously presented) An apparatus for communicating flow control and retransmission information comprising:
- a. a configuring circuit to configure a plug to transmit an isochronous back channel packet over an isochronous back channel;
 - b. a packetizing circuit to packetize flow control and retransmission information within the isochronous back channel packet;
 - c. a transceiver circuit configured to transmit the isochronous back channel packet via the plug, wherein the transceiver circuit is configured to transmit isochronous data packets in non real-time via the plug;
 - d. a de-packetizing circuit to extract the flow control and retransmission information from the isochronous back channel packet; and
 - e. a controller coupled to the configuring circuit, the packetizing circuit, the transceiver circuit, and the de-packetizing circuit to determine a control instruction and a stream of isochronous data packets to which the control instruction is applied from the flow control and retransmission information and apply the control instruction to the determined stream of isochronous data packets, and further wherein the control instruction instructs a transmitting device to reset transmission of the stream of isochronous data packets starting from a specified packet within the stream of isochronous data packets, such that the specified packet and packets after the specified packet within the stream of isochronous data packets are transmitted.
56. (previously presented) An apparatus for communicating flow control and retransmission information comprising:
- a. a configuring circuit to configure a plug to receive an isochronous back channel packet over an isochronous back channel;

- b. a packetizing circuit to packetize flow control and retransmission information within the isochronous back channel packet;
 - c. a transceiver circuit configured to receive the isochronous back channel packet via the plug, wherein the transceiver circuit is configured to receive isochronous data packets in non real-time via the plug;
 - d. a de-packetizing circuit to extract the flow control and retransmission information from the isochronous back channel packet; and
 - e. a controller coupled to the configuring circuit, the packetizing circuit, the transceiver circuit, and the de-packetizing circuit to determine a control instruction and a stream of isochronous data packets to which the control instruction is applied from the flow control and retransmission information and apply the control instruction to the determined stream of isochronous data packets, and further wherein the control instruction instructs a transmitting device to reset transmission of the stream of isochronous data packets starting from a specified packet within the stream of isochronous data packets, such that the specified packet and packets after the specified packet within the stream of isochronous data packets are transmitted.
57. (previously presented) An apparatus for communicating flow control and retransmission information comprising:
- a. means for configuring a plug to communicate an isochronous back channel packet over an isochronous back channel;
 - b. means for packetizing flow control and retransmission information within the isochronous back channel packet;
 - c. means for communicating the isochronous back channel packet via the plug;
 - d. means for extracting the flow control and retransmission information from the isochronous back channel packet; and
 - e. means for controlling coupled to the means for configuring, the means for packetizing, the means for communicating, and the means for de-packetizing, wherein the means for controlling determines a control instruction and a stream of isochronous data packets to which the control instruction is applied from the flow control and retransmission information and applies the control instruction to the determined stream of isochronous data packets, wherein the stream of isochronous

data packets is transmitted in non real-time, and further wherein the control instruction instructs a transmitting device to reset transmission of the stream of isochronous data packets starting from a specified packet within the stream of isochronous data packets, such that the specified packet and packets after the specified packet within the stream of isochronous data packets are transmitted.

58. (previously presented) An apparatus for communicating flow control and retransmission information comprising:
- a. means for configuring a plug to communicate an isochronous back channel packet over an isochronous back channel;
 - b. means for packetizing flow control and retransmission information within the isochronous back channel packet;
 - c. means for communicating the isochronous back channel packet via the plug;
 - d. means for extracting the flow control and retransmission information from the isochronous back channel packet; and
 - e. means for controlling coupled to the means for configuring, the means for packetizing, the means for communicating, and the means for de-packetizing, wherein the means for controlling determines a control instruction and a stream of isochronous data packets to which the control instruction is applied from the flow control and retransmission information and applies the control instruction to the determined stream of isochronous data packets, wherein the control instruction is an indication to reset transmission of the stream of isochronous data packets starting from a specified packet within the stream of isochronous data packets and further wherein the isochronous back channel packet includes a dbc field that identifies the specified packet within the stream of isochronous data packets from which transmission is to be reset, wherein resetting transmission from the specified packet causes the specified packet and packets after the specified packet within the stream of isochronous data packets to be transmitted.
59. (previously presented) The apparatus according to Claim 58 wherein the isochronous back channel packet includes a control field that contains a value corresponding to the control instruction.

60. (previously presented) An apparatus for communicating flow control and retransmission information comprising:
- a. means for configuring a plug to transmit an isochronous back channel packet over an isochronous back channel;
 - b. means for packetizing flow control and retransmission information within the isochronous back channel packet;
 - c. means for communicating the isochronous back channel packet via the plug, wherein the means for communicating is configured to transmit isochronous data packets in non real-time via the plug;
 - d. means for extracting the flow control and retransmission information from the isochronous back channel packet; and
 - e. means for controlling coupled to the means for configuring, the means for packetizing, the means for communicating, and the means for de-packetizing, wherein the means for controlling determines a control instruction and a stream of isochronous data packets to which the control instruction is applied from the flow control and retransmission information and applies the control instruction to the determined stream of isochronous data packets, and further wherein the control instruction instructs a transmitting device to reset transmission of the stream of isochronous data packets starting from a specified packet within the stream of isochronous data packets, such that the specified packet and packets after the specified packet within the stream of isochronous data packets are transmitted.
61. (previously presented) An apparatus for communicating flow control and retransmission information comprising:
- a. means for configuring a plug to receive an isochronous back channel packet over an isochronous back channel;
 - b. means for packetizing flow control and retransmission information within the isochronous back channel packet;
 - c. means for communicating the isochronous back channel packet via the plug, wherein the means for communicating is configured to receive isochronous data packets in non real-time via the plug;
 - d. means for extracting the flow control and retransmission information from the isochronous back channel packet; and

- e. means for controlling coupled to the means for configuring, the means for packetizing, the means for communicating, and the means for de-packetizing, wherein the means for controlling determines a control instruction and a stream of isochronous data packets to which the control instruction is applied from the flow control and retransmission information and applies the control instruction to the determined stream of isochronous data packets, and further wherein the control instruction instructs a transmitting device to reset transmission of the stream of isochronous data packets starting from a specified packet within the stream of isochronous data packets, such that the specified packet and packets after the specified packet within the stream of isochronous data packets are transmitted.